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7. A method for providing a genetically engineered bacteriophage comprising a heterologous nucleic acid molecule encoding a polypeptide comprising the amino acid of SEQ ID NO:2, the method comprising:

5 (a) providing an isolated nucleic acid molecule comprising a 5' region, a central region and a 3' region, the 5' region and the 3' region comprising nucleotide sequences present in a selected bacteriophage genome, the central region comprising a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:2;

10 (b) contacting a bacterial cell lysate with the isolated nucleic acid molecule and with an isolated DNA molecule comprising the selected bacteriophage genome; and

(c) allowing the isolated nucleic acid molecule to recombine with the isolated DNA molecule comprising the bacteriophage genome and subsequently form bacteriophage particles, thereby producing a genetically engineered bacteriophage comprising a heterologous nucleic acid molecule encoding a polypeptide comprising the amino acid of SEQ ID NO:2.

8. A method for producing bacteriophage for reducing the viability of a selected type of bacteria, the method comprising:

(a) identifying a bacteriophage that is capable of infecting a selected type of bacteria;

20 (b) preparing a genetically engineered bacteriophage genome comprising a nucleic acid sequence that encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:2 and the genome of the identified bacteriophage; and

(c) preparing bacteriophage comprising the genetically engineered bacteriophage genome.

25 9. A composition comprising a genetically engineered bacteriophage comprising a heterologous nucleic acid molecule encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:2 and a pharmaceutically acceptable carrier.

30 10. A method for treating a bacterial infection comprising administering to a patient having a bacterial infection a composition comprising a genetically modified bacteriophage,

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